Environmental Management Systems and ISO 14001

May 10, 2012
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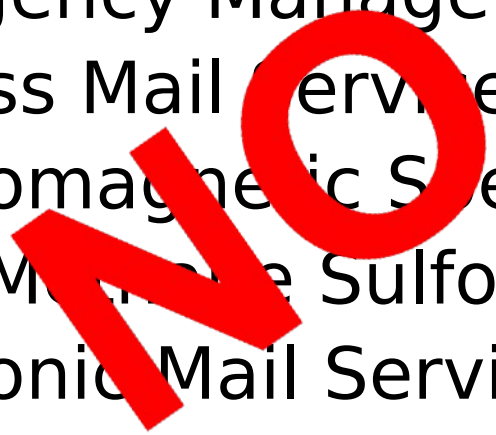
EMS?

- Emergency Medical Service
- Emergency Management Services
- Express Mail Service
- Electromagnetic Spectrum
- Ethyl Methane Sulfonate
- Electronic Mail Service
- Excess Mileage Surcharge
- European Monetary System
- Earth and Mineral Sciences



Well, yes, but not today!

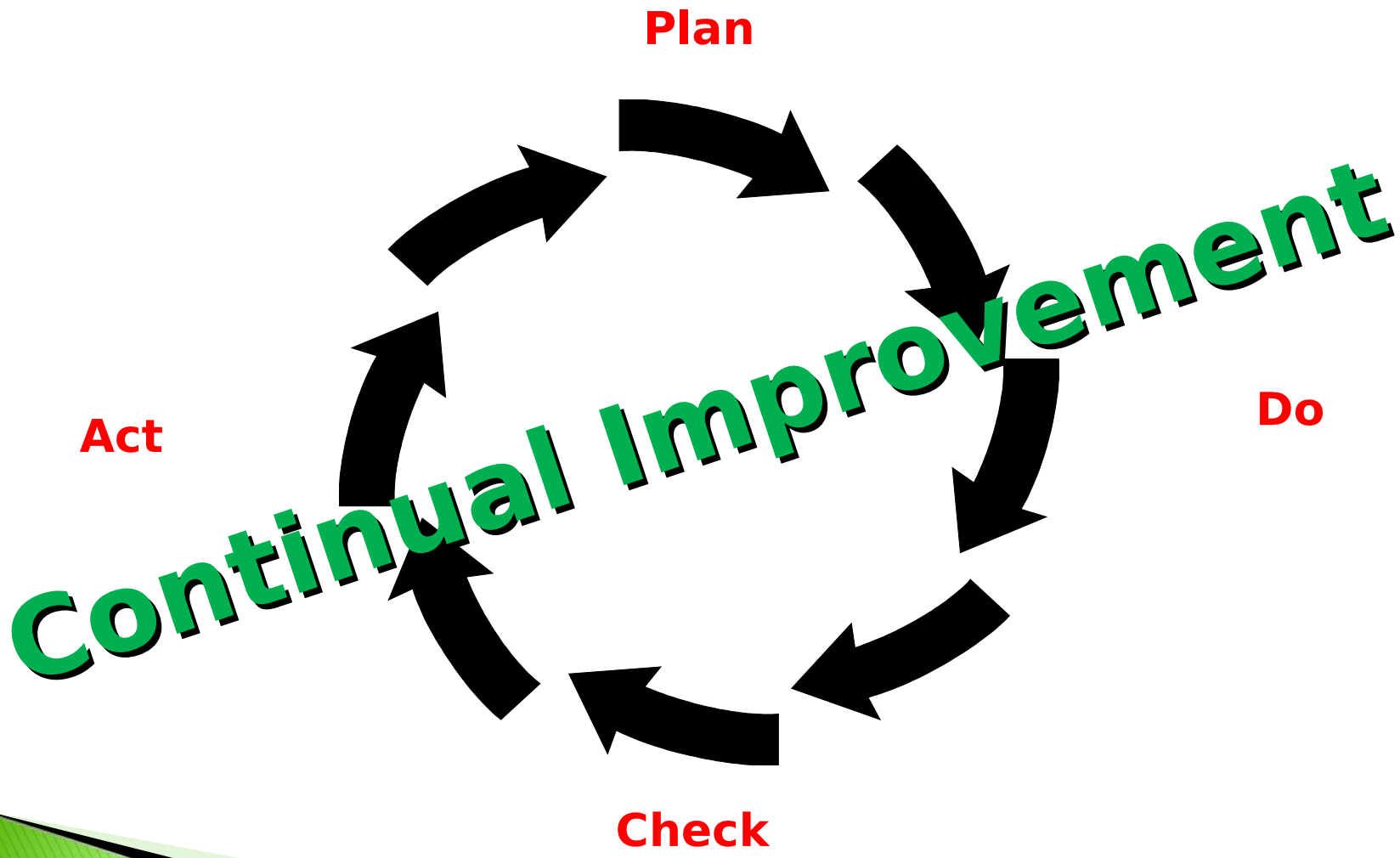
Environmental Management System

A proven tool that is specifically designed to help any organization manage its activities and allow successful pursuit of that organization's environmental policies and goals.

What does an EMS do?

- Provides a systematic way of managing an organization's environmental affairs
- Ensures environmental considerations are a priority
- Gives order and consistency for organizations to address environmental concerns through:
  - allocation of resources,
  - assignment of responsibility
  - ongoing evaluation of practices, procedures and processes
- Focuses on continual improvement of the system

Continuous Improvement Cycle



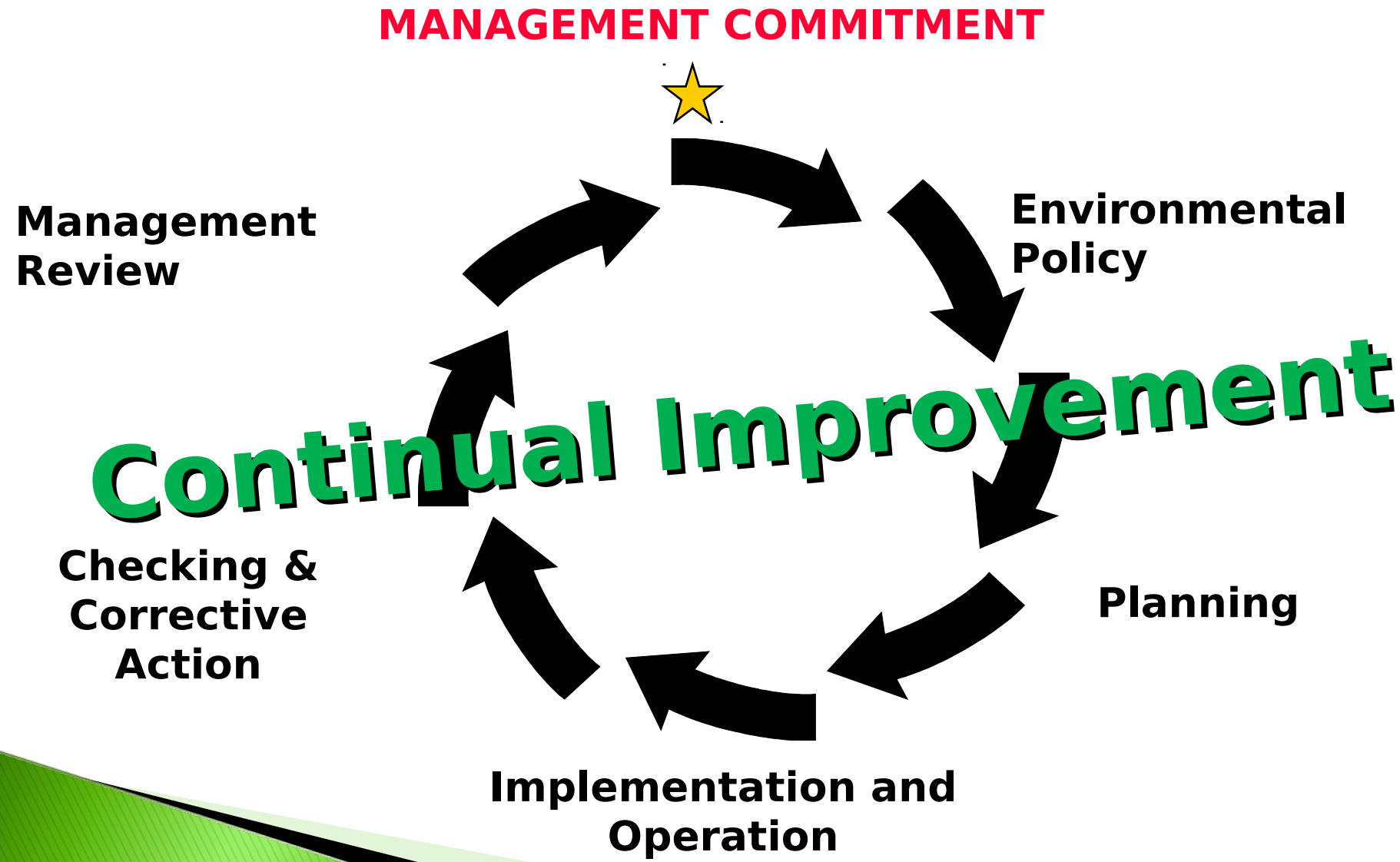
Why Implement an EMS?

- Helps to focus organization's priorities and avoid "flavor of the month syndrome"
- Helps to prioritize and keep sustainability goals from competing with each other for resources and attention
- Establish a framework to move beyond compliance
- Vehicle for positive change; improved employee morale, enhanced public image
- Helps to identify the root causes of environmental problems

What is ISO 14001?

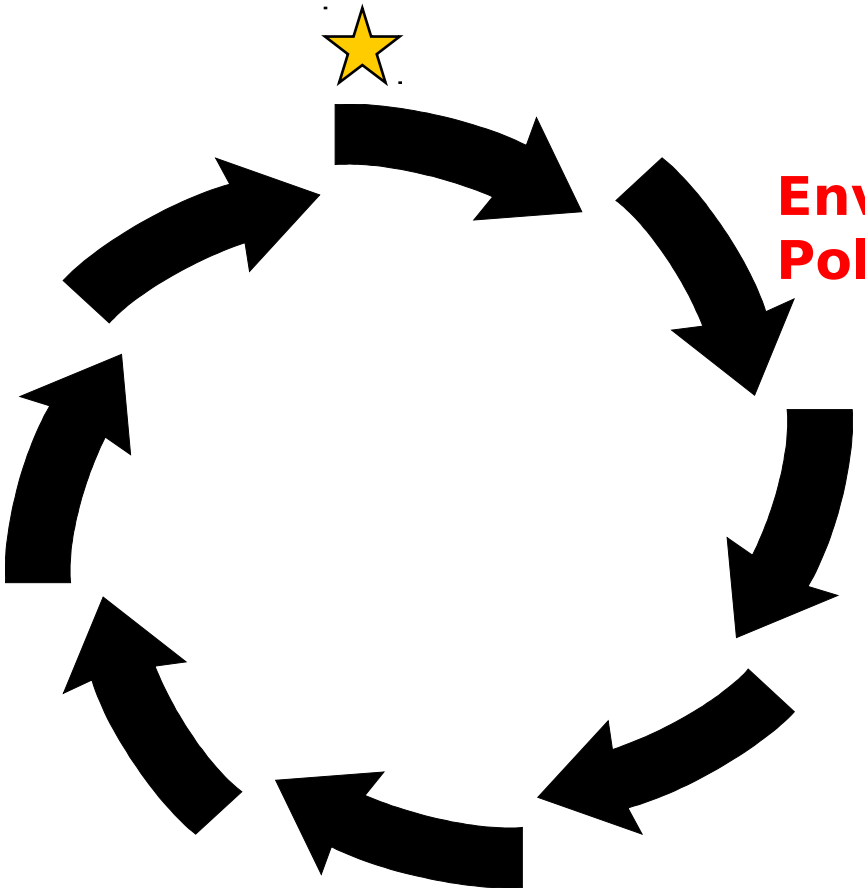
- International Standard
- Developed by an NGO representing over 100 countries
- ANSI is the US representative
- Widely adopted
- Some customers demand implementation, some even require certification
- Auditable
- Compatible and easily integrated with other ISO standards (ISO 9000, ISO 50000, etc)

EMS PROGRAM CYCLE



EMS PROGRAM CYCLE

MANAGEMENT COMMITMENT



Environmental Policy

Environmental Policy

- “Heart” of the EMS
- Establishes the organization’s commitment
  - Prevention of pollution
  - Compliance with environmental regulations
  - Continual improvement
- Established by management
- Sets the framework for environmental objectives and targets
- Must be appropriate to the nature, scale and environmental impacts

ISO 14001 Policy Statement

NC Zoo

G ***Growth in knowledge and continued improvement***

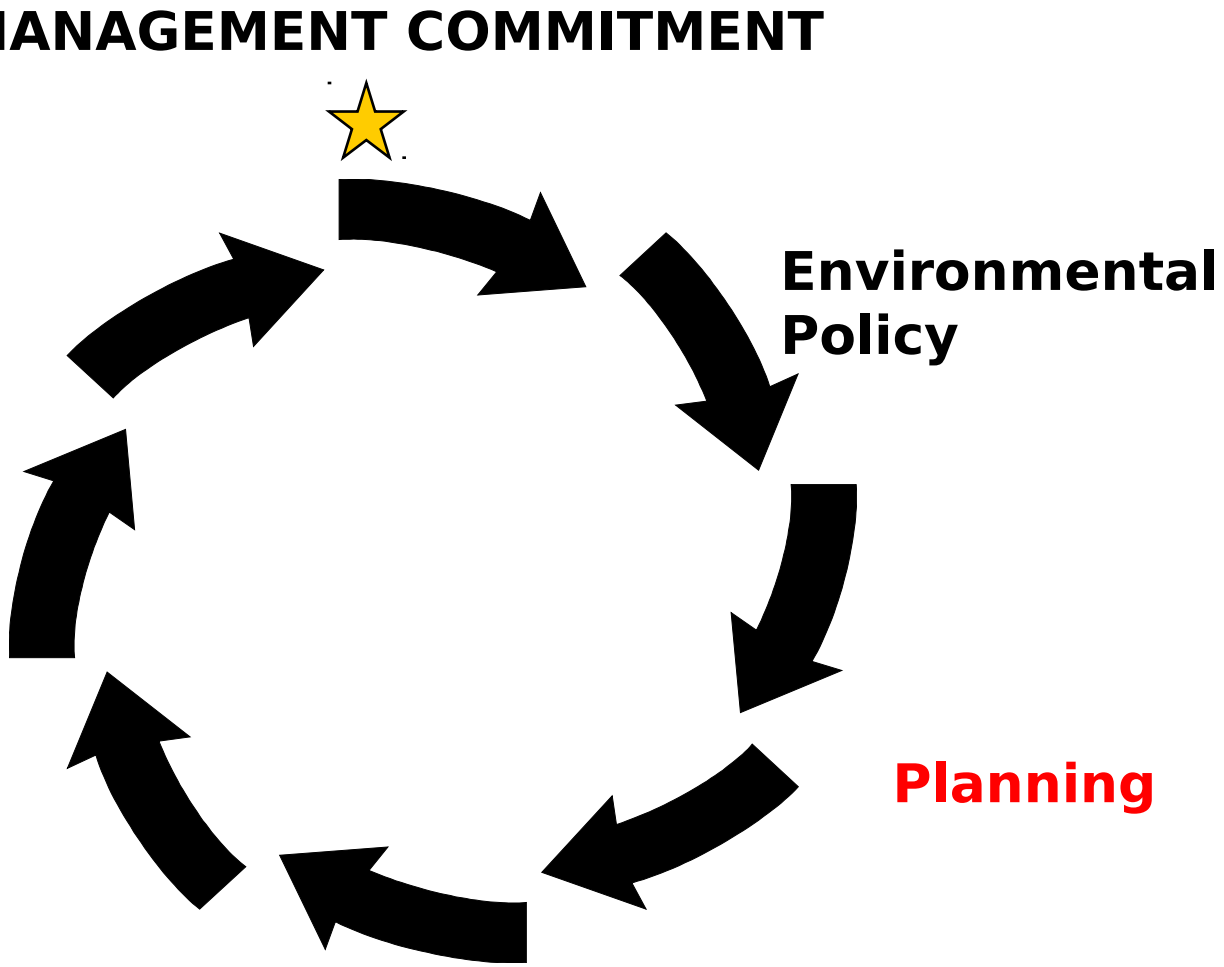
R ***Reduction in use of resources and waste***

E ***Environmentally responsible and sustainable operation***

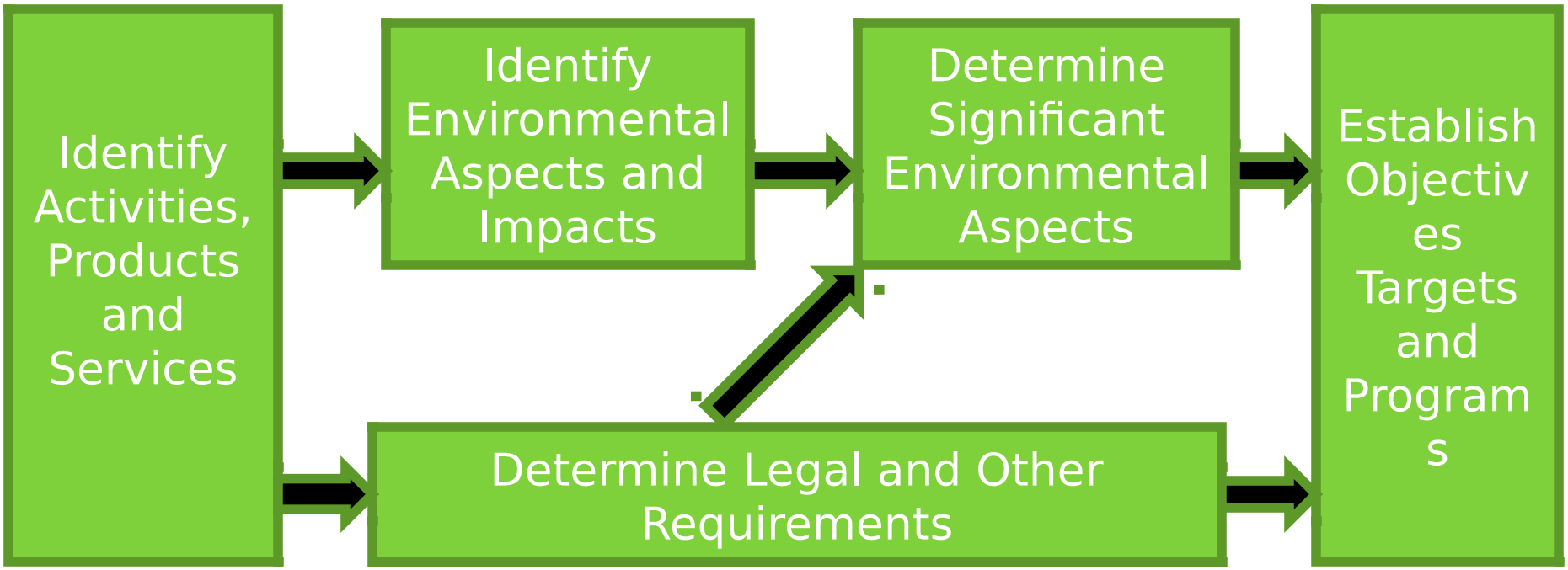
E ***Example to others***

N ***Necessary compliance with environmental laws and regulations***

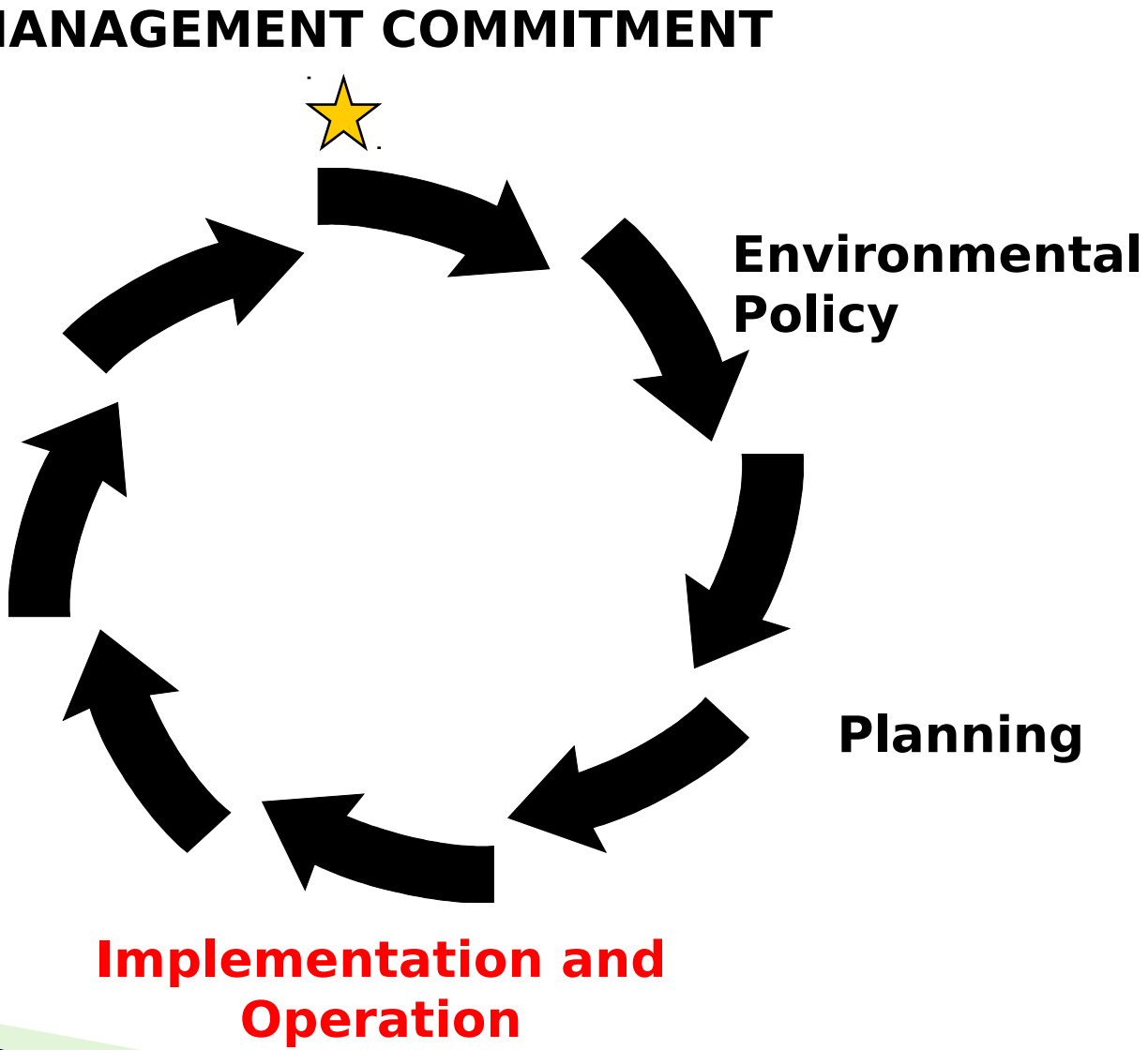
EMS PROGRAM CYCLE



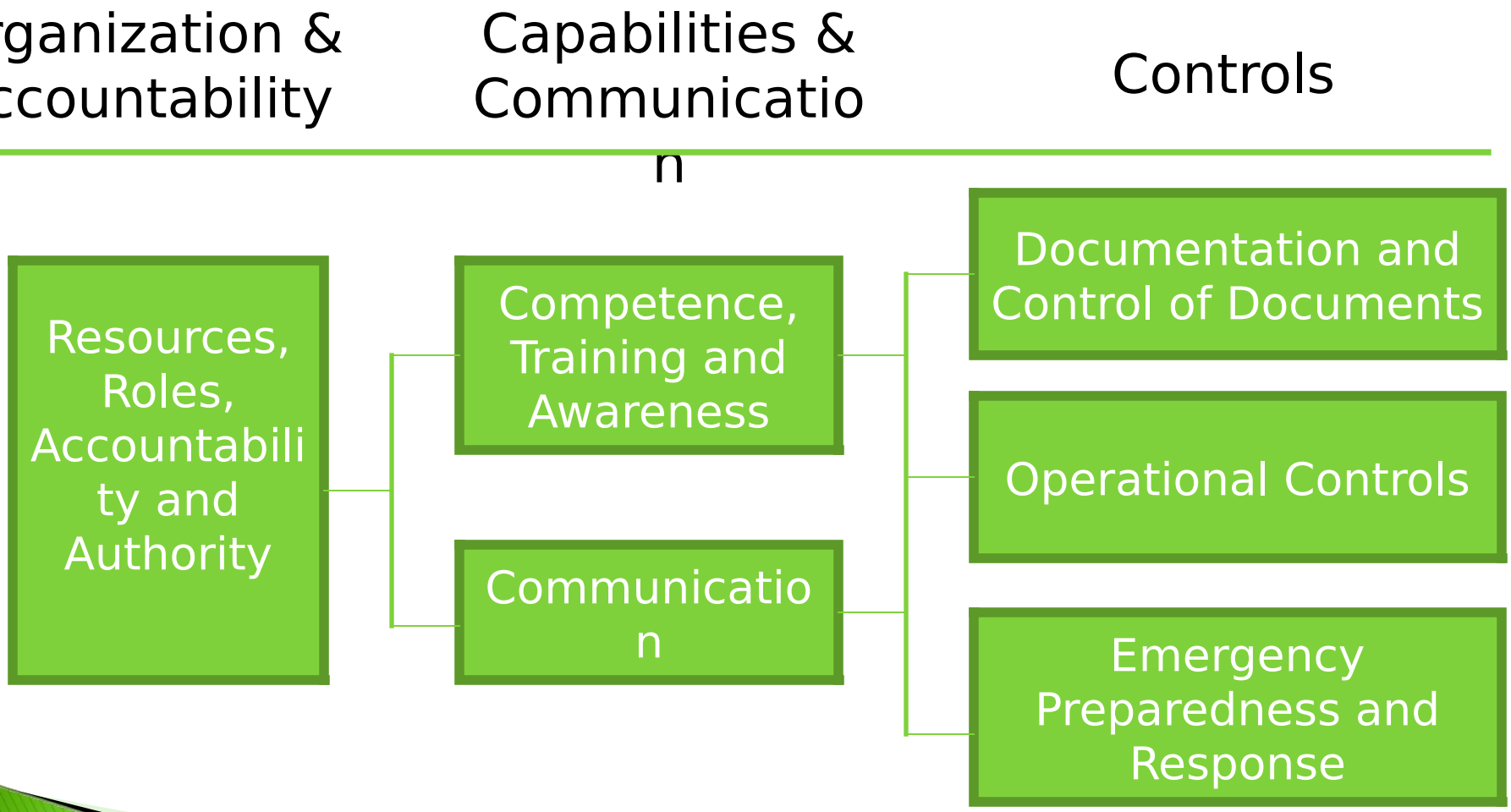
Planning


Identify Activities, Products and Services
Identify Environmental Aspects and Impacts
Determine Significant Environmental Aspects
Establish Objectives Targets and Programs
Determine Legal and Other Requirements

EMS PROGRAM CYCLE



Implementation and Operation



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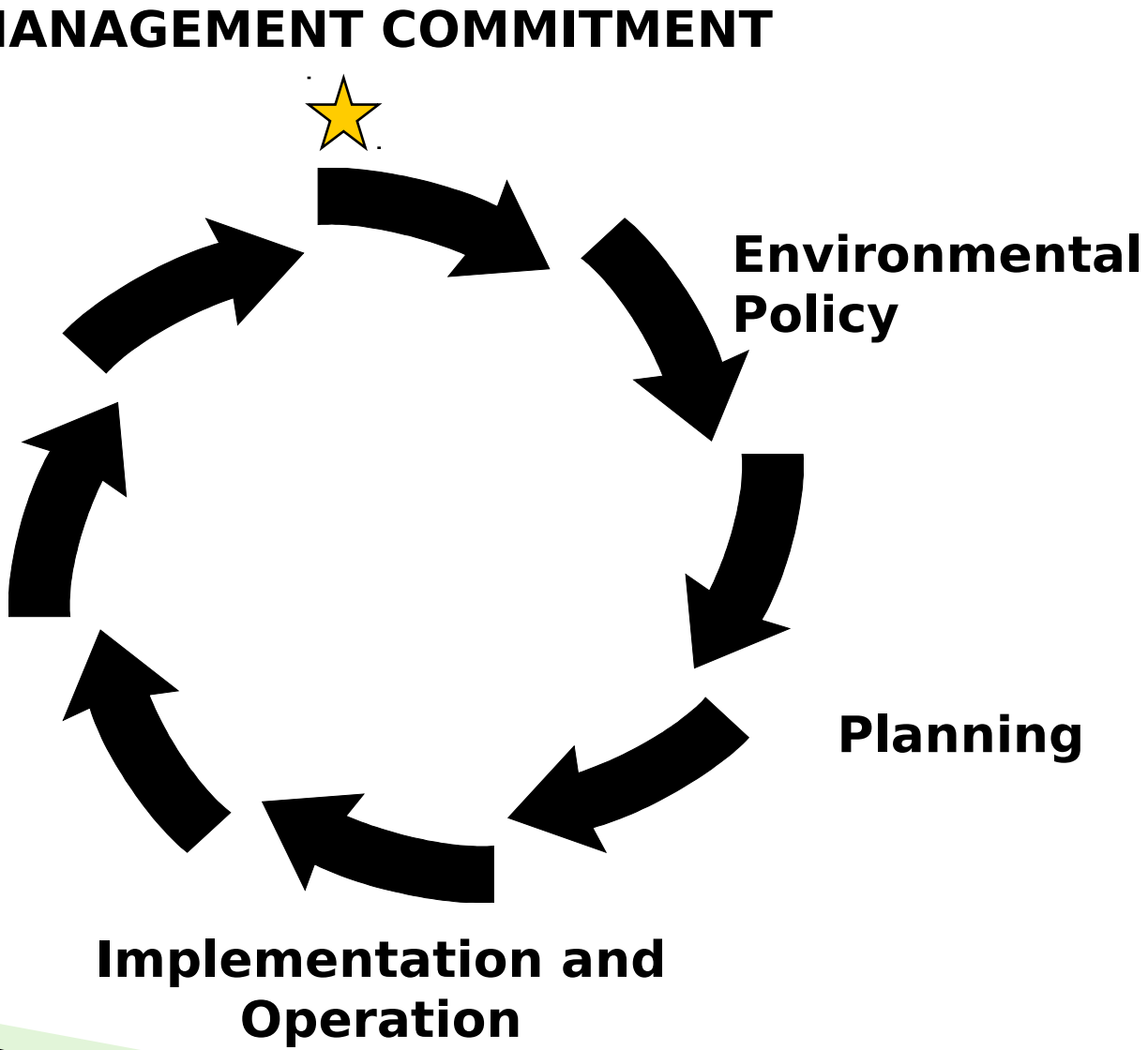
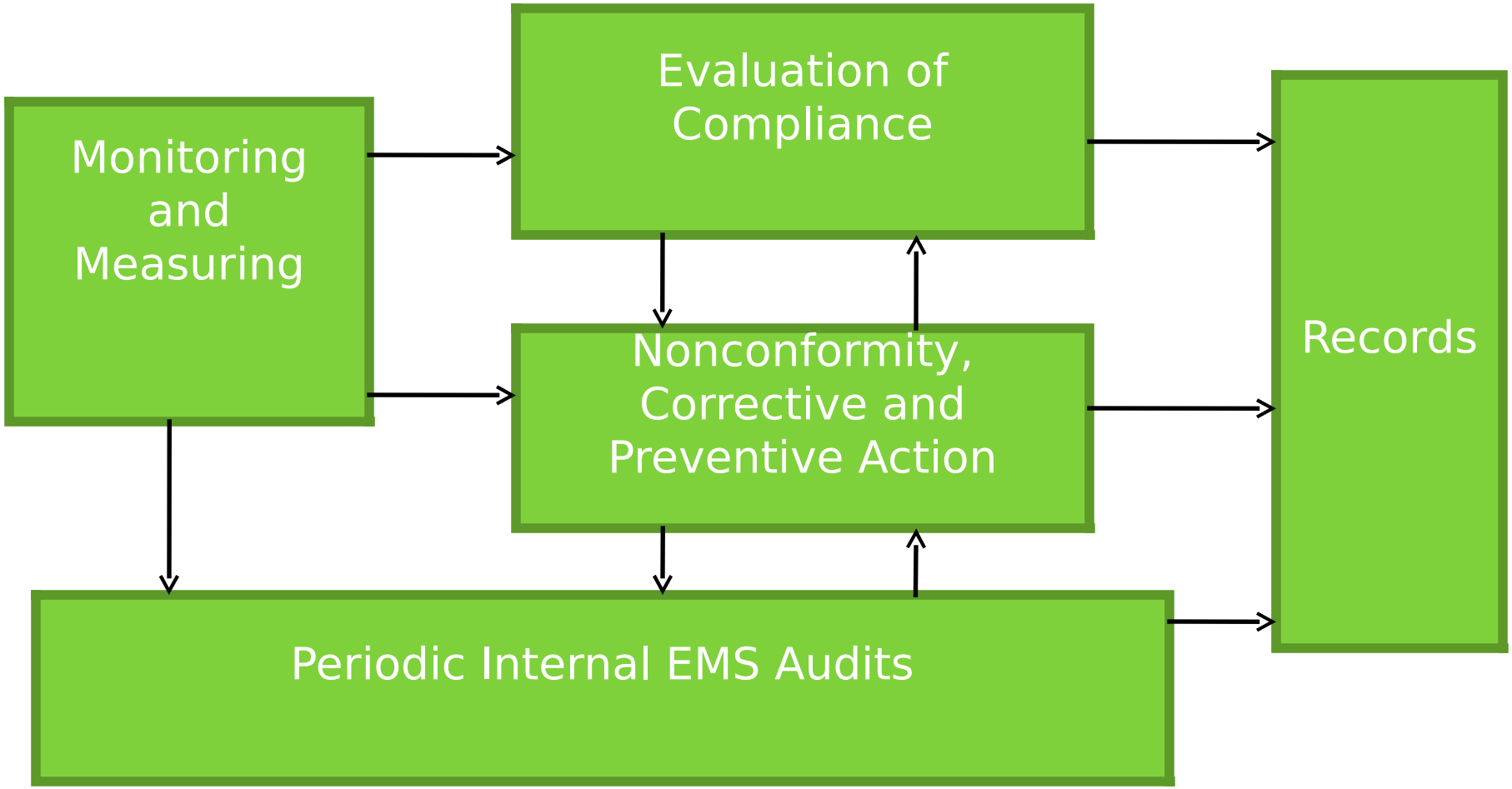


Checking and Corrective Action



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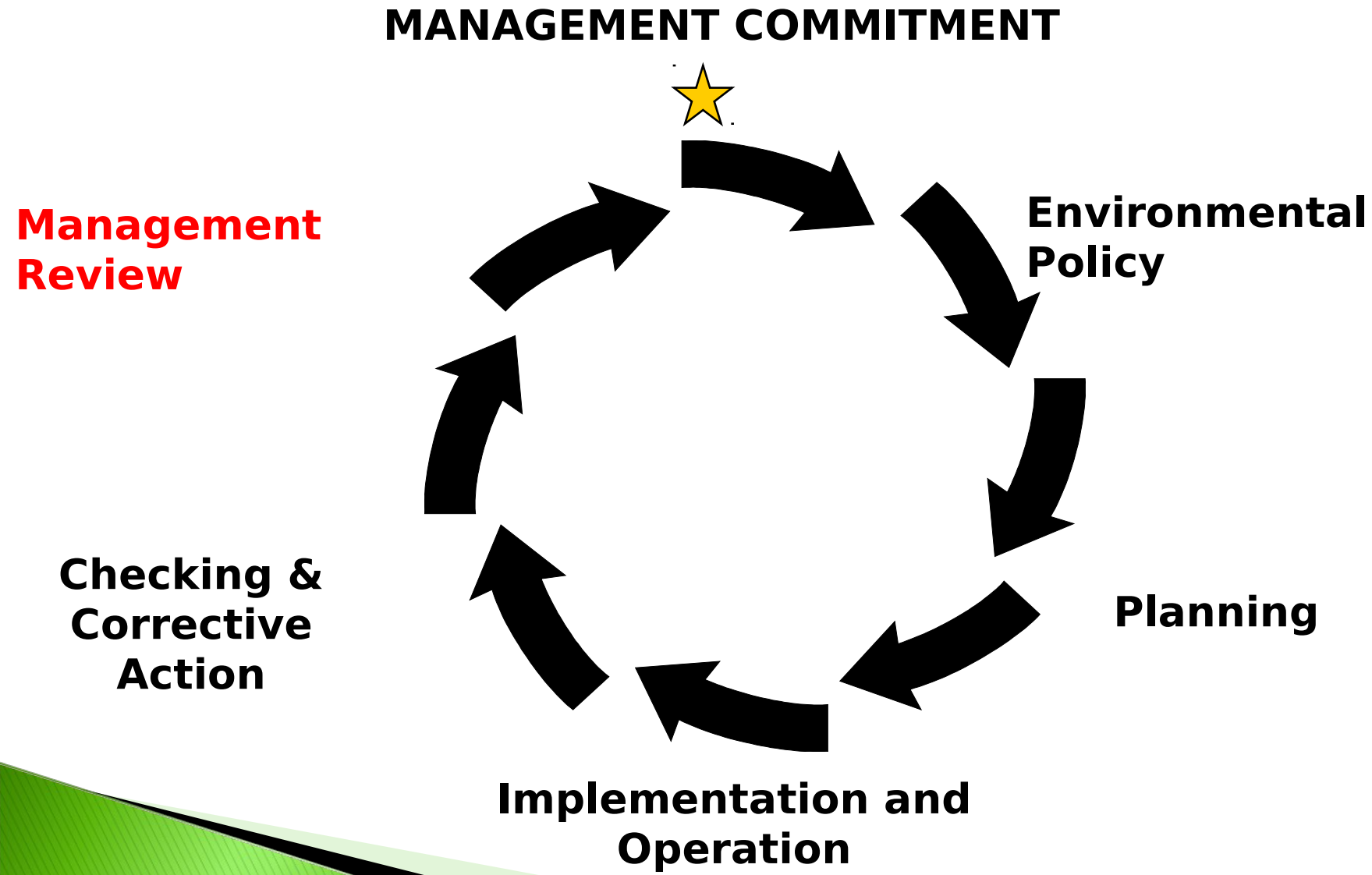


Management Review

Take account of:

- audit findings
- progress on objectives
- changes to facilities
- changes in activities, products or services
- changes in technology
- concerns of interested parties
- other relevant information

To Assess the

- suitability,
- adequacy, and
- effectiveness of the EMS

In order to determine the need for change and improvement to:

- the environmental policy
- the objectives and targets
- other elements of the EMS

Incentives to implement an EMS/ ISO 14001

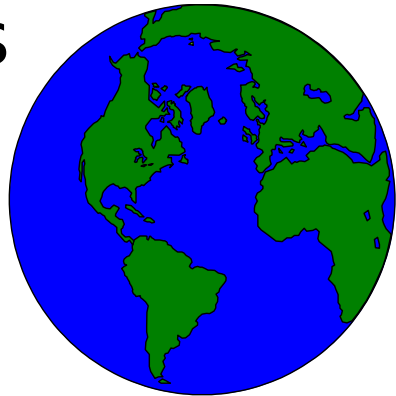
- Supplier mandates/encouragement (ex. IBM, Ford, GM, health care)
- Trade Association assistance and sector models (furniture, metal finishers, livestock, etc.)
- Executive Order 4/00 requiring federal facilities to have an EMS
- Recognition programs such as the NC Environmental Stewardship Initiative
- Competitive business advantage

Does an EMS have to be ISO 14001 certified?

- Unless you are required by a mandate, NO

3rd party certification is:

- A way to ensure your EMS isn't forgotten about
- A confidential outside set of eyes to assist with systemic improvements



ESI members

65 ESI member sites have fully implemented EMS that are ISO 14001 certified including:

- Large & Small Industry
- Local, State, and Federal Government
- Agribusiness

3 ESI member sites have fully implemented EMSs deemed functionally equivalent to ISO 14001 by ESI.

The remaining members are all currently working toward implementing EMS.

So, What Is the ESI?

- Voluntary
- Free
- Recognition
- Assistance
- Networking
- Training
- Non-regulatory
- Beyond compliance
- Resource

- Coaching
- Mentoring
- Goal setting
- Public commitment
- Community of like-minded EHS professionals
- Idea sharing
- Environmental Leaders
- Confidential
- EMS
- Lean & Green

How does ESI help with EMSs?

- EMS Development Training Modules
- Help with Implementation
- GAP Analyses
- Internal Audit Training & Assistance
- Functional Equivalency Determinations

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